

AMENDMENTS TO THE SPECIFICATION

The following are amendments to the specification. Please add the following new paragraphs after line 13 on page 4:

Fig. 7 is an enlarged partially sectional view showing the distal end of a coil deployment system prior to deployment of the coil.

Figs. 8 and 9 illustrate the sequential steps in the radial expansion of the distal tip of the coil deployment system as the embolic coil is released.

Fig. 10 illustrates the distal tip of the coil deployment system after release of the embolic coil.

Please add the following two new paragraphs, after line 2 on page 6 of the specification:

Figs. 7-10 illustrate the detachment system disclosed in Hieshima U.S. Patent No. 6,113,622. Referring to Fig. 7, the distal end of introducer 104 is illustrated in detail. Introducer 104 includes a proximal section 116 and a distal section 108. The proximal section 118 of the embolic coil 10 is disposed within the lumen 120 of the distal section 108 of the introducer and is tightly held within the lumen 120 of the distal section 108 prior to release of the coil.

Figs. 3 and 4 generally illustrate the coil release mechanism in action for the deployment system. As shown in Fig. 3, when a hydraulic pressure is applied to the interior 124 of the introducer 104, the distal section 108 of the catheter begins to expand radially, much as a balloon expands during the process of inflation. As distal section 108 continues to expand radially there comes a point as illustrated in Fig. 9 in which the coil 10 become disengaged from the lumen of the distal section 108 and the coil 10 is then released from the introducer and is deployed at that location within the vessel. As illustrated in Fig. 10, when coil 10 has been released from introducer 104, the introducer may then be withdrawn leaving the coil 10 positioned at the desired site.